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**G01N 27/30****G01N 27/46**(21)Application number: **61257868**(22)Date of filing: **29 . 10 . 86**(71)Applicant: **OMRON TATEISI  
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## (54)ENZYME ELECTRODE

## (57)Abstract:

PURPOSE: To permit mass production of electrodes having high performance by providing the sensing parts and junctures of the electrodes and insulating protective films to cover the parts except said parts to a pair of substrates and covering the sensing parts of one substrate with an immobilized enzyme film.

CONSTITUTION: An enzyme electrode 1 to be used for detecting glucose included in blood, etc., is formed of a pair of the substrates 10, 18 to serve as a working part 15 and a reference part 21. Alumina ceramic plates which have rough surfaces are segmented to plural blocks as insulating substrates 10, 18 and conductive films to serve as working electrodes 5 or reference electrodes 16 are formed in the respective blocks. The junctures 5b or 16b are formed to one end of the conductive films. The insulating protective films 6, 7 are then formed over the entire surface except the junctures 5b, 16b and

window parts 6a, 17a are provided thereto to expose part of the electrodes 15, 16 which are used as the sensing parts 5a, 16a. One substrate 10 is thereafter covered with the immobilized enzyme film 13.

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